



Grass and Endophyte Interactions

Guest Editors:

Dr. Barbara Wiewióra

Department of Seed Science and
Technology, Plant Breeding and
Acclimatization Institute—
National Research Institute,
Radzików, Poland

Dr. Dariusz Pańka

Department of Phytopathology
and Molecular Micology,
University of Technology and Life
Sciences, ul. Bernardyńska 6, 85-
029 Bydgoszcz, Poland

Prof. Dr. Grzegorz Żurek

Department of Bioenergetics,
Quality Analysis and Seed
Science, Plant Breeding and
Acclimatization Institute—
National Research Institute in
Radzików, 05-870 Błonie, Poland

Deadline for manuscript
submissions:

closed (20 June 2023)

Message from the Guest Editors

Dear Colleagues,

Grasses are the host of symptomless endophytic fungi, from *Epichloë* genera. For agricultural practice, this symbiosis has a positive effect on the grasses inhabited by these fungi, but at the same time, the fodder from grasses inhabited by these fungi may adversely affect livestock. Endophyte-infected grasses express a range of adaptations to abiotic (drought, mineral imbalance, soil acidity) and biotic (disease, pest, or animals) stresses. As a result, endophyte-infected grasses are more compatible than non-infected grasses and thrive better in the presence of limited resources. However, in certain circumstances, endophytes may produce toxic alkaloids (ergovaline, lolitrem B, etc.) that have been linked with animal production and health problems.

In this Special Issue, we invite papers on the association of grasses with endophytes and an examination of the alkaloids produced by these fungi. Papers describing the reactions of grasses inhabited by endophytes to biotic and abiotic stresses as well as the adverse effects of alkaloids on farm animals will be of interest.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Dilantha Fernando
Department of Plant Science,
University of Manitoba, Winnipeg,
MB R3T 2N2, Canada

Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, PubAg, AGRIS, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Plant Sciences) / CiteScore - Q1 (Ecology, Evolution, Behavior and Systematics)

Contact Us

Plants Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/plants
plants@mdpi.com
[X@Plants_MDPI](https://twitter.com/Plants_MDPI)